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JENKINS, WILSON, TAYLOR & HUNT, P. A. Suite 1200 UNIVERSITY TOWER			EXAMINER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/562,240	STOTTS JR. ET AL.				
Office Action Summary	Examiner	Art Unit				
	DAVID H. CHU	2628				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.11 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>17 Fe</u> 2a) This action is FINAL . 2b) This	e <u>bruary 2010</u> . action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-13 and 16-50 is/are pending in the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-13 and 16-50 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and all accomposed and all all all all all all all all all al	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4)	te				
Paper No(s)/Mail Date						

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/17/2010 has been entered.

Specification

2. The objection to the specification has been withdrawn in light of the Applicant's amendment.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-13, 16-40, 46, 47 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over DeLeeuw (U.S. Patent No. 6353450) in view of Martins et al. (U.S. Patent No. 7595820, hereinafter referred to as "Martins").

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5. Note with respect to claim 1, DeLeeuw teaches a method for controlling a computer using at least one video image of a plurality of video images, the method comprising:

(a) Capturing video streams, the video stream comprising a plurality of video
 frames and each comprising an image of a user

[501 of FIG.3 captures a video stream]
(DeLeeuw, col. 3, line 46-47)

(b) Determining a location of an object in the video stream
 [DeLeeuw, 532 of FIG.11 detects location of the blob]

- (c) Controlling a program executing on the computer based on the location of the object [DeLeeuw, 502 of FIG.10]
- (d) Combining the video stream with a user interface stream generated by the computer operating system, thereby forming a composite video stream
 [DeLeeuw, 24 of FIG.2]
- (e) Displaying the composite video stream [DeLeeuw, 116 of FIG.3]

However, DeLeeuw does not expressly teach:

- A plurality (at least 2) of video streams, as recited by the Applicant
- Combining the n video streams at a single computer

Martins teaches:

A camera used with personal computers for video chat

(Martins: col. 3, line 64-67)

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Therefore, at the time of the invention, it would have been obvious to one of an ordinary skill in the art to apply the camera of Martins while using the user interface of DeLeeuw, because this allows a visual communication with remote users. The combined teachings then teach a plurality of video streams (the video stream of DeLeeuw and the video stream from the video chat) combined at a single computer, running the user interface of DeLeeuw.

- 6. Note with respect to claim 2, the combined teachings of DeLeeuw and Martins teach the method of claim 1 wherein capturing n video streams includes
 - Receiving a live video signal of a user generated by a video camera
 (DeLeeuw, col. 3, line 46-47)
- 7. Note with respect to claim 3, the combined teachings of DeLeeuw and Martins teach the method of claim 1 wherein capturing n video streams includes
 - Receiving a stored video signal from a video storage device
 (DeLeeuw, col. 2, line 57 & col. 7, line 23-27)
- 8. Note with respect to claim 4, the combined teachings of DeLeeuw and Martins teach the method of claim 1 wherein determining the location an object in at least one of the n video streams includes:
 - Searching for a predetermined color in one of the n video streams
 (DeLeeuw, col. 14, line 6-21)

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 In response to locating the predetermined color, identifying an occurrence of the predetermined color having the largest area

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(DeLeeuw, col. 14, line 6-21)
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 Determining coordinates of the center of the occurrence of the predetermined color having the largest area

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(DeLeeuw, col. 16, line 23-26)
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- 9. Note with respect to claim 5, the combined teachings of DeLeeuw and Martins teach the method of claim 1 wherein controlling a program executing on the computer based on the location of the object comprises:
 - (a) Analyzing motion of the object in successive video frames to determine presence of a control event

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(DeLeeuw, col. 3, line 65 - col. 4, line 3)
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(b) Controlling the program based on the control event

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(DeLeeuw, col. 16, line 26-31)
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- 10. Note with respect to claim 6, the combined teachings of DeLeeuw and Martins teach the method of claim 5 wherein,
 - Each of the n video streams comprises an image of a different computer user [The video stream of DeLeeuw comprise of an image of the user using the computer running the user interface of DeLeeuw, whereas the video stream of Martins comprise of an image of a remote user.]

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 The object comprises an object associated with the user's hand, and the control event comprises a pointer movement event

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(DeLeeuw, col. 4, line 26-33 & col. 3, line 19-42)
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- 11. Note with respect to claim 7, the combined teachings of DeLeeuw and Martins teach the method of claim 5 wherein,
 - Each of the n video streams comprises an image of a different computer user [The video stream of DeLeeuw comprise of an image of the user using the computer running the user interface of DeLeeuw, whereas the video stream of Martins comprise of an image of a remote user.]
 - The object comprises an object located in the user's hand, and the control event comprises a mouse click event

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(DeLeeuw, col. 4, line 26-33 & col. 3, line 19-42)
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- 12. <u>Note with respect to claim 8</u>, DeLeeuw teaches the method of claim 1 wherein, combining the n video streams with the user interface stream generated by the computer operating system includes,
 - Horizontally reversing frames of the n video streams to produce a mirror image of the frames of the n video streams

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(DeLeeuw, col. 13, line 51-55)
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13. <u>Note with respect to claim 9</u>, the combined teachings of DeLeeuw and Martins teach the method of claim 1 wherein, Combining the n video streams with the user interface stream generated by the computer operating system includes,

Transparently overlaying the user interface stream on the n video streams
 (DeLeeuw, col. 3, line 43-61)

- 14. Note with respect to claim 10, the combined teachings of DeLeeuw and Martins teach the method of claim 1 wherein combining the n video streams with the user interface stream generated by the computer operating system includes,
 - Transparently overlaying the n video streams on the user interface stream
 (DeLeeuw, col. 6, line 25-32)
- 15. Note with respect to claim 11, the combined teachings of DeLeeuw and Martins teach the method of claim 1 wherein combining the n video streams with the user interface stream generated by the computer operating system includes:
 - (a) Adjusting a transparency level of at least one of the user interface stream and the n video streams

(DeLeeuw, col. 14, line 46-58)

(b) Generating the composite stream from the user interface stream and the n
 video streams

(DeLeeuw, 24, FIG.2)

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16. Note with respect to claim 12, the combined teachings of DeLeeuw and Martins

teach the method of claim 11 wherein adjusting the transparency level includes,

Dynamically adjusting the transparency level

(DeLeeuw, col. 4, line 62-64)

17. Note with respect to claim 13, the combined teachings of DeLeeuw and Martins

do not expressly teach the method of claim 1 wherein displaying the composite

video stream includes,

Projecting the composite video stream

However, it is well known in the art to use a projector as a display device.

Therefore, at the time of the invention, it would have been obvious to one of an

ordinary skill in the art to use a projector display as the video display of the combined

teachings of DeLeeuw and Martins, because this enables viewing contents at a bigger

size, and such combination yield predictable results.

18. Note with respect to claim 16, claim 16 is similar in scope to the claims 1, 9 and

10, thus the rejections to claims 1, 9 and 10 hereinabove are also applicable to claim 16.

19. Note with respect to claims 17-21, claims 17-21 are similar in scope to claims 2,

8, 11, 12 and 13 respectively, thus the rejections to claims 2, 8, 11, 12 and 13 are also

applicable to claims 17-21.

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20. <u>Note with respect to claim 22</u>, the combined teachings of DeLeeuw and Martins teach the method of claim 16 wherein displaying the composite video stream includes,

- Displaying the composite video stream on a non-projection computer display device (DeLeeuw, video display 116 of Fig. 3)
- 21. <u>Note with respect to claim 23</u>, claim 23 is similar in scope to the claims 8 and 18, thus the rejections to claims 8 and 18 hereinabove are also applicable to claim 23.
- 22. <u>Note with respect to claims 24-26</u>, claims 24-26 are similar in scope to the claim 6 and 7, thus the rejections to claim 6 and 7 hereinabove are also applicable to claims 24-26.
- 23. <u>Note with respect to claim 27</u>, the combined teachings of DeLeeuw and Martins teach the method of claim 16 wherein the desktop comprises:
 - A desktop of a computer local to at least one of the users
 (FIG 1 of DeLeeuw shows a desktop of a computer local to the user running the user interface of DeLeeuw)
- 24. <u>Note with respect to claim 28</u>, the combined teachings of DeLeeuw and Martins teach the method of claim 16 wherein the desktop comprises:

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A desktop of a computer remote from at least one of the users

(The desktop displayed on the computer running the user interface of DeLeeuw is remote to the user on the other end of the video chat of Martins)

- 25. <u>Note with respect to claim 29</u>, claim 29 is similar in scope to the claim 6, thus the rejections to claim 6 hereinabove are also applicable to claim 29.
- 26. Note with respect to claim 30, claim 30 is similar in scope to the claims 6 and 7, thus the rejections to claim 6 and 7 hereinabove are also applicable to claim 30.
- 27. <u>Note with respect to claims 31-34</u>, claims 31-34 are similar in scope to the claims 1, 4, 11 and 34, thus the rejections to claims 1, 4, 11 and 34 hereinabove are also applicable to claims 31-34. Note further, DeLeeuw teaches the computer system in FIG.2-5.
- 28. <u>Note with respect to claim 35</u>, claim 35 is similar in scope to the claims 1 and 5, thus the rejections to claims 1 and 5 hereinabove are also applicable to claim 35.
- 29. <u>Note with respect to claim 36</u>, the combined teachings of DeLeeuw of Martins teach:
 - Selecting an object for manipulation (DeLeeuw, cot. 4, line 26-33 & cot. 3, line 19-42).

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However, the combined teachings of DeLeeuw and Martins do not expressly teach the computer program product of claim 35 wherein manipulating objects includes,

Highlighting the objects

However, it is well known in the art to highlight objects that are selected with a computer pointer mouse. Therefore, at the time of the invention, it would have been obvious to one of an ordinary skill in the art to highlight the object selected by the user in the combined system of DeLeeuw and Martins, because this enables visual feedback of the selected item.

- 30. <u>Note with respect to claims 37-40</u>, claims 37-40 are similar in scope to the claims 6, 7, 1 and 6 respectively, thus the rejections to claims 6, 7 and 1 hereinabove are also applicable to claims 37-40.
- 31. <u>Note with respect to claim 49</u>, claim 49 is similar in scope to the claim 6, thus the rejections to claim 6 hereinabove are also applicable to claim 49.
- 32. Regarding claim 46, claim 46 is similar in scope to the claim 6.
- 33. Regarding claim 47, claim 47 is similar in scope to the claims 27 and 28.

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34. Claims 41-45, 48, and 50 are rejected under 35 U.S.C. 103(a) as being

unpatentable over DeLeeuw in view of Martins as applied to claims 1, 29, 47 and

49 above, and further in view of Price (U.S. Patent No. 7278107).

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35. Note with respect to claim 41, the combined teachings of DeLeeuw and Martins

do not expressly teach:

Collaborators in a distributed computer programming task

However, Price teaches:

A collaborative desktop application, wherein one or more users manipulate

a window of the collaborative/shared application (Price, Abstract)

Therefore, at the time of the invention, it would have been obvious to one of an ordinary skill in the art to apply the user interface teaching of DeLeeuw in a network-based collaborative meeting as taught by Price, wherein multiple instances of the user interface of DeLeeuw is applied to each user participating in the collaborative meeting,

because this allows all meeting partners to view the same work product at the same time.

36. Regarding claim 42, the combined teachings of DeLeeuw and Martins does not

expressly teach:

Wherein the program comprises a collaborative desktop application

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However, Price teaches:

Wherein the program comprises a collaborative desktop application

: Price teaches a collaborative desktop application, as stated in the rejection above (claim

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Therefore, at the time of the invention, it would have been obvious to one of an

ordinary skill in the art to apply the user interface teaching of DeLeeuw in a network-

based collaborative meeting as taught by Price, wherein multiple instances of the user

interface of DeLeeuw is applied to each user participating in the collaborative meeting,

because this allows all meeting partners to view the same work product at the same time.

37. Note with respect to claim 43, the combined teachings of DeLeeuw, Martins and

Price teach the method of claim 42 wherein,

The collaborative desktop application allows each user to control his or her

own mouse pointer on a shared desktop

[Each users of the network based collaborative meeting of Price have their own mouse

pointer for control on each respective desktop)

38. Note with respect to claims 44-45, claims 44-45 are similar in scope to the claims

41 and 42 respectively, thus the rejections to claims 41 and 42 hereinabove are also

applicable to claims 44-45.

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39. <u>Note with respect to claims 48 and 50</u>, claims 48 and 50 are similar in scope to the claim 44, thus the rejections to claim 44 hereinabove are also applicable to claims 48 and 50.

Response to Arguments

40. Applicant's arguments with respect to claims 1-13, 16-50 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID H. CHU whose telephone number is (571)272-8079. The examiner can normally be reached on M-F 9:30am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on (571) 272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/David H. Chu/ Patent Examiner, Art Unit 2628